

WHAT IS CLAIMED IS:

1. A defect inspection system comprising:

image acquiring means for acquiring a two-
dimensional image of a subject which is a processing
5 target in a manufacturing process;

defect extracting means for extracting a defect by
a defect extraction algorithm using a predetermined
parameter for an image acquired by said image acquiring
means;

10 displaying means for displaying an image of the
defect of the subject extracted by said defect
extracting means;

parameter adjusting means for adjusting the
parameter in accordance with a defect extraction degree
15 for the subject; and

quality judging means for judging the quality of
the subject based on a defect information extracted by
said defect extracting means.

2. The defect inspection system according to
20 claim 1, wherein said quality judging means has a
function of checking the defect information extracted
by said defect extracting means with defect data
registered in a defect dictionary to determine a type
of said defect, and a function of registering a new
25 defect data in the defect dictionary.

3. The defect inspection system according to
claim 1, wherein the parameter adjusting means includes

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slide switches which are displayed on a screen of said displaying means and adjust a parameter, and said slide switches and an image of the subject are simultaneously displayed on said screen of said displaying means.

5 4. The defect inspection system according to claim 1, wherein said defect extracting means has a function of automatically setting a parameter to judge a subject whose defect is known in advance.

10 5. The defect inspection system according to claim 1, wherein said quality judging means judges the quality for an image of the subject acquired by executing defect extraction by said defect extracting means by using a parameter set by the parameter adjusting means.

15 6. The defect inspection system according to claim 1, wherein said displaying means has a function of minimizing images of a plurality of subjects extracted by said defect extracting means and displaying them in a list.

20 7. The defect inspection system according to claim 6, wherein said displaying means displays thumbnail images obtained by minimizing said images in a list.

25 8. The defect inspection system according to claim 7, wherein said displaying means displays said thumbnail images in accordance with each lot of a cassette for accommodating the subject.

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claim 1, wherein said displaying means changes and displays a color of a frame of an image of a subject determined to be defective by said quality judging means.

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